

CISCOM8030PTP-6XGF-16GF-8GC

30-Port L 3 10G Rack Mounted PTP Industrial Ethernet Switch



- Support 6 x 10G SFP+ ports, 16 x 1G SFP ports, 8 x 1G combo ports
- Support IEEE1588 (PTP) and IEEE802.1AS (gPTP) protocols
- MW-Ring (recovery time < 20 ms @ 200 switches), ERPS, STP/RSTP, MSTP for network redundancy
- Support IPv4/IPv6 static routing, RIPv1/v2, and OSPF dynamic routing protocols
- Single or dual DC24, DC48, AD220 power supply
- Support dual inputs for redundancy
- High-strength aluminum alloy casing, IP40-rated protection, fanless design
- -40 to +75°C operating temperature range

Product description

The CISCOM8030PTP-6XGF-16GF-8GC is a high-performance Layer 3 10G PTP industrial Ethernet switch engineered for precise time synchronization and large-scale network backbones. It features 6* 10G SFP+ ports, 16* 1G SFP ports, and 8* 1G combo ports, providing exceptional flexibility for diverse networking needs. Utilizing a store-and-forward switching architecture, it ensures powerful bandwidth processing, automatic packet error detection, and low-latency data transmission. Built with industrial-grade components and housed in a 19-inch 1U aluminum alloy chassis, it offers rugged reliability with a fanless cooling design and operates across a wide temperature range of -40°C to +75°C, maintaining stable performance even in harsh industrial environments.

The CISCOM8030PTP-6XGF-16GF-8GC ptp switch complies with key industrial communication standards, meeting the requirements for real-time communication, reliability, and network security. It supports multiple management interfaces, including console, TELNET/SSH CLI, HTTP/HTTPS web access, and SNMP for MIB-based monitoring. The switch is equipped with an extensive suite of Layer 2 and Layer 3 protocols such as PTP, RIP, OSPF, VRRP, ERPS, STP/RSTP/MSTP, VLAN, QoS, LACP, IGMP, MLD Snooping, LLDP, 802.1X, ACL, RMON, and DHCP functions, along with NTP, port mirroring, DDM, Ping, and Traceroute for diagnostics. Additional features include online firmware upgrades, configuration file management, and flexible installation options for rack or desktop setups. Designed for demanding industrial networks, it is widely used in integrated energy systems, smart cities, rail transit, intelligent transportation, and industrial automation applications.

Product features

- Support storm suppression of unicast frames, broadcast frames and unknown frames, supports storm detection of broadcast and multicast packets, and prevents network storms
- Support link static aggregation and dynamic aggregation LACP, which can increase transmission bandwidth, improve link reliability and achieve network load sharing
- Support 802.1Q VLAN and provides Access, Trunk, and Hybrid interfaces to easily divide multiple broadcast domains and enhance network security.
- Support VLAN segment based on MAC, protocol, IP subnet, etc., applicable to networks in different environments
- Support MAC address table and aging time limit, static unicast/multicast MAC address and interface binding to ensure legal user use
- Support PIM, IGMP, IGMP Snooping, MLD Snooping and multicast filtering to reduce the broadcast of multicast data in the network and save network resources
- Support LLDP link layer discovery protocol, obtains LLDP neighbor device information, and monitors link status to facilitate topology management and fault location.
- Support ERPS Ethernet multi-ring protection technology, provide multi-ring networking, perform link backup, achieve rapid convergence, and improve network stability
- Support VRRP virtual routing redundancy protocol, which combines multiple routing devices into a virtual router to achieve redundant backup.
- Support multiple login methods such as HTTP, HTTPS, TELNET, SSH, CONSOLE port, etc.
- Support SNMPv1/v2c/v3, information query, information modification and troubleshooting can be carried out through the MIB network management system to achieve centralized management
- Support RMON remote network monitoring, collect statistics and alarms on various types of data frames, and can be used for remote monitoring and management of network management systems
- Support port security, convert dynamic MAC address into secure dynamic/static/Sticky MAC to enhance device security
- Support 802.1X port authentication to authenticate and control access rights of access users
- Support AAA security network management mechanism, performs authentication, authorization and accounting through RADIUS and TACACS+ to prevent illegal users from logging in
- Support ACL access control list, you can customize multiple frame type filtering rules to filter or rate limit specified packets
- Support QoS service quality, allowing voice, video and important data to be transmitted preferentially in network equipment to solve network congestion
- Support port mirroring, which can collect data sent and received by the port for network detection and fault management.
- Support DDM digital diagnostic monitoring, which can monitor the operating temperature, voltage, current, transmit/receive optical power and other parameters of DDM SFP optical modules

- Support Ping IPv4/IPv6 and Traceroute IPv4/IPv6 to detect network connectivity and locate fault points
- Support dual power supply redundant power failure alarm and port disconnection alarm, and support relay alarm method
- Support DHCPv4 server to centrally dynamically manage and configure user IP addresses
- Support DHCPv4 snooping to ensure that DHCP clients obtain IP addresses from legal DHCP servers to prevent DHCP attacks.
- Support DHCPv4 relay to assist the DHCP server in dynamically allocating network parameters to DHCP clients.
- Support system logs to record user operations, system security, system failures and other information, and support Syslog server remote monitoring

Technical Specifications

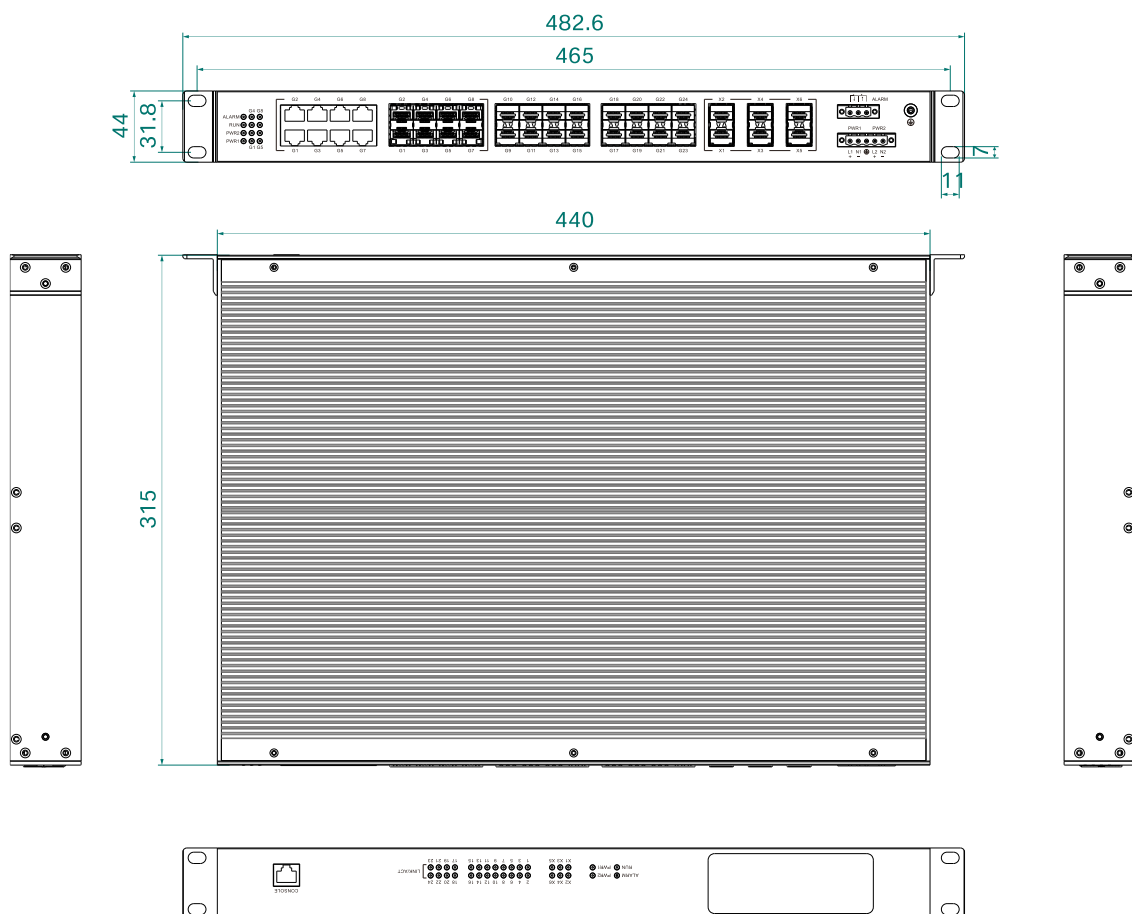
Software	
Switching	Support port configuration, port speed limit, storm suppression, storm detection, port aggregation, LACP, port statistics Supports 802.1Q VLAN, MAC/protocol/subnet-based VLAN, port isolation, and VLAN mapping Supports MAC address aging and learning restrictions, static unicast or multicast MAC address binding
PTP	IEEE 1588v2 (Precision Time Protocol, PTP) IEEE 802.1AS (generalized PTP, gPTP)
Redundancy	Support fast ring network (MW-Ring) proprietary protocol Support ERPS Support STP/RSTP/MSTP
Multicast technology	Support IGMP Snooping Support MLD Snooping Support multicast filtering Support IGMPv2/v3 Support PIM-SM
Routing technology	Support IPv4/IPv6 static routing Support routing control, routing encryption and routing access control list Support RIP, RIPng, OSPFv2/v3 dynamic routing Support VRRPv2/v3

Security management	Support HTTP/HTTPS, SNMP, TELNET/SSH access management Support 802.1X port authentication, AAA authentication, RADIUS, TACACS+ protocols Support port security, source IPv4/IPv6 protection, ARP protection Support ACL, filter L2-L4 layer data Support loopback detection and alarm
Management and maintenance	Support QoS, SP, DWRR queue scheduling Support DHCPv6 client/listening/relay, DHCPv4 client/server/listening/relay Support SNMPv1/v2c/v3, SNMPv1/v2c/v3 Trap, RMON, LLDP, LLDP MED Support proprietary network management protocol MW-NMPv2 Support port mirroring, DDM, Ping IPv4/IPv6, Traceroute IPv4/IPv6 Support user permission management, log management, local time management and NTP client Support temperature monitor Supports configuration file management, image upgrade and dual backup, online restart and factory settings restoration
Exchange	
Processing type	Store and forward
Backplane bandwidth	180Gbps
Buffer size	32Mbit
MAC address table	32K
Interface	
10G port	6 x 10GBase-R 10G SFP+ ports
1G port	16 x 1000Base-X Gigabit SFP ports
1G combo port	8 x 1G combo ports, 10/100/1000Base-T(X) auto-sensing 1G RJ45 copper ports or 1000Base-X SFP ports, copper port supports full/half duplex, auto MDI /MDI-X
Relay	1 x relay alarm output, 3-position 5.08mm pitch lock terminal block
CONSOLE	1 x CONSOLE port, RS232 signal RJ45 port, used for device debugging and command line configuration
Status LED	Power indicator, operation indicator, alarm indicator, interface indicator

Power Supply	
Power input	DC Model: DC 18 ~72V, anti-reverse protection, single/dual power supply optional AC Model: AC85~264V/DC110~370V, single/dual power supply optional
Power consumption	<47W@DC24V, <46W@DC48V, <48W@AC220V
Connection method	5-position 5.08mm pitch lock terminal block
Power protection	Built-in overcurrent protection
Mechanical	
Dimensions	482.6×44×315 mm (Including mounting brackets)
Installation method	Standard 19-inch 1U rack mount installation
IP Code	IP40
Weight	About 4.5kg
Working Environment	
Operating temperature	-40°C to +75°C
Storage temperature	-40°C to +85°C
Relative humidity	5%~95% (no condensation)
Industry Standard	
EMC	IEC 61000-4-2 (ESD): Level 4 IEC 61000-4-5 (Surge): Level 4, Network port supports 6kV lightning protection; IEC 61000-4-4 (EFT): Level 4

Dimensions

Unit: mm



Ordering information

Standard Model	10G SFP+ Port	1G SFP+	1G Combo Port	Input Voltage
CISCOM8030PTP-6XGF-16GF-8GC-DC24	6	16	8	Single or dual DC18~72V
CISCOM8030PTP-6XGF-16GF-8GC-DC48	6	16	8	Single or dual DC18~72V
CISCOM8030PTP-6XGF-16GF-8GC-AD220	6	16	8	Single or dual AC85~264V/ DC110~370V



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